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OBSERVATIONS OF THE TOTAL ECLIPSE OF THE
MOON, OCTOBER 16, 1902.

The total lunar eclipse of October 16, 1902, was observed at the Students' Observatory of the University of California, by the students in Practical Astronomy. Some of these have had but little experience in observational work, and their results have consequently been given smaller weights. The weights have been assigned in a somewhat arbitrary manner, from consideration of experience of the observers, instruments used, etc. The atmospheric conditions were good. The observations and results are contained in the following tabulation.

SIDNEY D. TOWNLEY.

TOTAL ECLIPSE OF MOON, 1902, OCTOBER 16.

Phase.	P. S. T.	O — C.	p.	Instrument.	Observer.	Remarks.
Enters shadow	8 ^h					
	16.8 ^m	— 0.5 ^m	2	Finder of 6"	J. D. MADDRILL	Definition poor.
	17.7	+ 0.4	2	Surveyor's Transit	GEO. DICKIE	
	16.8	— 0.5	2	Alt-azimuth	M. VAN WORMER	Time probably taken from Mrs. HUBBARD's ob- servations.
	18.0	+ 0.7	2	5" Refractor	Mrs. E. HUBBARD	
	18.0	+ 0.7	1	Eye	Mrs. J. KOETHEN	
	15.5	— 1.8	0	Field-glasses	Miss E. HADLEY	Watch compari- son uncertain.
	16.8	— 0.5	3	6"-Refractor	A. F. GILLIHAN	
Weighted mean		— 0.05				
Totality begins	9 ^h					
	20.5 ^m	+ 1.5	2	Finder of 6"	J. D. MADDRILL	
	19.8	+ 0.8	2	Surveyor's Transit	GEO. DICKIE	
	19.9	+ 0.9	2	Alt-azimuth	M. VAN WORMER	
	20.5	+ 1.5	1	Opera-glasses	Mrs. E. HUBBARD	
	20.5	+ 1.5	1	Eye	Mrs. J. KOETHEN	
	20.8	+ 1.8	2	3"-Refractor	Miss G. TODD	
	22.1	+ 3.1	0	Field-glasses	Miss E. HADLEY	
	19.3	+ 0.3	3	6"-Refractor	A. F. GILLIHAN	
	21.0	+ 2.0	2	Finder of 3"	S. D. TOWNLEY	
	20.3	+ 1.3	1	Eye	CHAS. PETIT	
	20.6	+ 1.6	1	Eye	E. E. EVERETT	
Weighted mean		+ 1.22				
Totality ends	10 ^h					
	48.4 ^m	+ 0.5	2	Finder of 6"	J. D. MADDRILL	
	48.1	+ 0.2	3	6"-Refractor	A. F. GILLIHAN	
	48.7	+ 0.8	2	Finder of 5"	S. D. TOWNLEY	
Weighted mean		+ 0.46				
Leaves shadow	11 ^h					
	49.4 ^m	— 0.3	2	Finder of 6"	J. D. MADDRILL	Uncertain, — for 2 min. preceding light was com- ing fast,—totali- ty certainly over by this time.
	49.3	— 0.4	3	6"-Refractor	A. F. GILLIHAN	
	49.9	+ 0.2	2	Finder of 3"	S. D. TOWNLEY	
Weighted mean		— 0.20				